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AEC Tr 2486

Sci - Physics

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SLA R-242/57

The Enthalpy of Formation of Zinc Phosphide Zn_3P_2 ,
by S. A. Shebukarev, G. Grossman, M. P. Morozova, 2 pp.

RUSSIAN, no per, Zhur Obshch Khim, SSSR, Vol XXV,
No 4, Apr 1955, p 633. CIA C 39500

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Basic and Acidic Oxides of Metals of the Large
Periods of the Periodic System, by S. A.
Shchukarev, 13 pp.

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No 4, 1958, pp 845-858.

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Sci - Chem
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Heats of Solution of the Hexahydrates of Cobalt and
Nickel Perchlorates, by S. A. Shchukarev, Z. U.
Borisova, G. M. Orlova, 3 pp.

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pp 1053, 1054.

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Sci -
Apr 61

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The Role of Ionization Potentials in the Thermodynamics of the Halides of Metals in the First Sub-
known period of the Fourth Period of D. I. Mendeleev's
System, by S. A. Shchukarev, M. A. Oranskaya, 11 pp.

Full tr

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1954, pp 2109-2118, CIA 542762 C, reel 3.

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Sci - Chemistry
Aug 56 CTS

Enthalpy of Formation of Compounds of
Manganese With the Elements of the Main
Sub-Group of the Vth Group of the Periodic
Table, by S. A. Shchukarev, M. P. Morozova,
4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI,
No 6, 1961, pp 1773-1776.

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Determination of the Saturated Vapor Pressure of Indium
Oxide, by S. A. Shebukarev, G. A. Semenov, 3 pp.

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Dissociation Pressure of Molybdenum Pentachloride, by
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6 pp.

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1956, pp 2093-2096.

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Sci - Chem

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Dec 57

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The Thermal Stability of Copper Halides, by S. A.
Shchekarev, E. V. Granskaya, 10 pp.

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The Thermal Stability of Cobalt and Nickel
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M. A. Granakaya, 14 pp.

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Preparation of Indanthrene Clear Orange GR, by
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RUSSIAN, no per, Zhur Khim Prom, Vol XVIII, No 19,
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RT-4004

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The Enthalpy of Formation of Compounds of Cad-
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Feb 60

A Volatile Higher Chloride of Ruthenium, by
S. A. Sheinikarev, W. I. Kolbin, A. N. Ryabov,

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London

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Enthalpies of Formation of Compounds of Zinc with
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Morozova, and Yu. P. Sapozhnikov, 4 pp.

Full tr

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Quantitative Colorimetric Determination of
Aliphatic & Alcohols in the Ultraviolet, by
S. A. Shchukarev, S. N. Andreyev, I. A. Ostrovskaya,
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Full translation.

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of the enthalpy of formation of
polybromine Tetrabromide, by
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Univ, No 22, No 4, 1961, pp 127-129.
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Vaporization of SbO, by
S. A. Shestakov, et al.
RUSSIAN, per. Izv VUZ Khim i Khim.
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NASA TT F-9776

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Mar 66

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A Thermodynamic Investigation of
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RUSSIAN, per, Vestnik Leningradskogo
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pp 148-153.
NEN 4500

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Sci/1967
Jan 66

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Ultra-Violet Colorimetric Determination of
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H. Andreev, O. V. Saponnikova, 4 pp.

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Jul-Aug 1954, pp 193-195. C.I.A. D 751241

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V
An Investigation of the Possibility of Colorimetric
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S. N. Andreev, 12 pp. UNCLASSIFIED.

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Hydrolysis and enthalpy of formation of niobium
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2 pp.

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pp. 1216-1218.

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Thermal Dissociation of Gold Chlorides, by S.A.
Shchukarev, M.A. Oranskaya. 7 pp.

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AEC-Tr-4586

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Sci

Apr 63

Thermodynamic Investigation of Certain Chlorine Derivatives of Tungsten, by S. A. Shchukarev, G. I. Novikov, 6 pp.

RUSSIAN, per. Zhur Neorgon Khim, Vol I, No 3, 1956.
pp. 357-361.

AEC-Tr-4584

Sci

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Apr 63

Enthalpy of formation of niobium pentabromide and
oxide tribromide, by S. A. Shechukarev, E. K.
Smirnova, 1 pp.

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Shchukarev, A. I. Efimov, 6 pp.

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AEC-tr-4060
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PST 87

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The Periodic Law of D. I. Mendeleev as a Basic Concept
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Discovery of the Law), by S. A. Shchukarev, 10 pp.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXIV, No 4,
1954, pp 581-592. CIA D 151347

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Scientific - Chemistry

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Effect of the Concentration of Solutions of Acids on the
Heat of Their Reaction with Zinc and Barium Hydroxides,
by S. A. Elchukarev, L. S. Illich, V. A. Latysheva,
4 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV,
No 8, Aug 1955, pp 1444-1447. CIA C 42156.

Consultants Bureau

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Sci - Chemistry

Jun 1956/Dex

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Missing Perissads and Artiads that have No Stable
Odd Subelements* (* Read at a meeting of the
Leningrad Section of the D. I. Meneleyev All-Un
Chem Society on 25 Mar 1948.)

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp 345-
348

Consultants Bureau Translation

A - 10251

Higher Barium Phosphides, by S. A. Shchukarev, M.P.
Morozova, E. A. Prokofyeva, 1 pp.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXIV, No 8,
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M.B.F. S-126

SHCHUKAREV, S. A., Chair of Gen and Inorg Chem,
University of Leningrad

So-called Anomalies and Degenerated Anomalies of
Element (Atomic) Weights* (*Presented Feb 6, 1947 at
a meeting of the Chemical Society in Commemoration
of the 40th Anniversary of the death of D. I. Men-
deleyev

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp 329-
335

Consultants Bureau Translation

A 10852

SHCHUKAREV, S. A.

The Isomucleon Rule and the Apportionment of the
Stable Subelements between the Artiads and the
Perissads* (*Read before a scientific meeting of
Leningrad State University on January 9, 1947.)

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp ~~227~~-
~~244~~ 390. 380-

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A-10853

The Heats of Formation of $\text{UO}_2\text{Cl}_2\text{aq}$, $\text{UO}_2\text{Br}_2\text{aq}$,
 $\text{UO}_2\text{Cl}_2 \cdot n\text{H}_2\text{O}$, $\text{UO}_2\text{Cl}_2 \cdot 3\text{H}_2\text{O}$, $\text{UO}_2\text{Br}_2 \cdot \text{H}_2\text{O}$ and
 $\text{UO}_2\text{Br}_2 \cdot 3\text{H}_2\text{O}$, by S. A. Shchukarev, I. V. Vasil'-
kova, V. M. Drozdova, K. E. Frantseva.

RUSSIAN, per, Zhur Neorgan Khim, Vol IV, No 1,
1959, pp 39-41.

The Cleaver-Hume Press Ltd

Sci - Chem
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III. The Thermochemistry of Solid Uranium Oxyhalides
and the Substitution Principle, by S. A. Shchukarev,
A. V. Vasil'kova, V. M. K Drozdova, H. S. Martynova.

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Sci + Chem
Jan 60

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Chromium Dioxide - Preparation, Properties, and
Enthalpy of Formation, by S. N. Ariya, S. A.
Shchukarev, V. B. Glushkova, 6 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXIII, No 8,
1953, pp 1241-1245.

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Mass Spectrometric Study of the Sublimation of
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Semenov, 4 pp.

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Bcl - Gm Chem

Jun 59

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Problems of Contemporary Chemistry of Coordination Compounds, by S. A. Shchukarev and L. S. Lilich,

RUSSIAN, bk, Problemy Sovremennoi Khimii i Koordinatsionnykh Soedineniy,

"CI

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Jan 66

Optical and Tensimetric Studies of the Chlorine
Derivatives of Hexavalent Tungsten, by S. A. Sachukarev,
G. I. Novikov, 16 p.

RUSSIAN, per, Zhur Neorgan Khim, Vol. III, No 12, 1958,
pp 2630-2641.

ASC-tr-4460
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Sci

199; 332

May 62

PST 382

The Disproportionation of Uranium Trichloride, by
S. A. Shchukarev, I. V. Vasil'kova, 6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 12,
1956, pp 2652-2656.

AEC-Tr-4593
PL-480

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Mar 63

233,877

Shchukarev, S. A., Andreev, S. N., and Balicheva,
T. G.

INFRARED SPECTRA OF PERCHLORIC ACID AND
ITS SOLUTIONS IN THE REGION 3700-2300 CM. -I.
[1962] 12p. 25 refs.

Order from OTS or SLA \$1.60

62-20164

Trans. of Leningrad U. Vestnik (USSR) 1962 [v. 17]
no. 4 [Seriya Fizika i Khimii no. 1] p. 128-134.

DESCRIPTORS: *Perchloric acid, Gases, Water, Solu-
tions, Organic solvents, *Spectra (Infrared), Absorp-
tion spectra.

A study is made of vibrational frequencies of aqueous
HClO₄ in a broad range of its concentrations, and of
the vibrational spectra of this acid in gas phase and in
organic, non polar solutions.

(Chemistry--Physical, TT, v. 9, no. 11)

62-20164

I. Shchukarev, S. A.
II. Andreev, S. N.
III. Balicheva, T. G.

62-20164

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68
INVESTIGATION OF POLYMERIZATION
Determination of the formation enthalpy of
Tetrabromide, by S. A. Shchukarev, et al.
RUSSIAN, per, Vestnik Leningradskogo Univer-
siteta Ser. Fiz. Khim. No 22, 1961,
pp 127-129.

BISI-4508

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Vibrational Spectra of the Water of Crystallization
in Monocrystals of $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$, $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
near the Fundamental of the O-H Valence Vibration,
S. N. Andreyev, S. A. Shchukarev, T. G. Balicheva,
pp. 5.

RUSSIAN, per, Zhur Strukturnoy Khim, Vol I, No 2,
1960, pp. 183-188.

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Sept 61

Mass Spectrometric Method for the Study of the
Evaporation of Slightly Volatile Substances, by S. A.
Shchukarev, G. A. Semenov, 7 pp.

RUSSIAN, per, Zhur Georg Khim, Vol II, No 6, 1957,
pp 1217-1220.

AEC-tr-4056
PL-480

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PST No 83

Thermodynamics of Tungsten and Molybdenum
Chlorides and Oxochlorides, by
S. A. Shechukarev.
RUSSIAN, per, Chisty Metall i Poluprovodniki,
1957, pp 142-149.
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sci-170
Oct 65

S. A. Shechukarev
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Modern Inorganic Chemistry in the Light of the Ideas
of D. I. Mandeleev, by S. A. Gshukarev, 10 pp.

RUSSIAN, per, Zhur Neorg Khim, Vol II, No 4, 1957,
pp 713-718.

APC-4054
PL-580

146,325

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Apr 61

PST No 81

A Possible Application of the Lambert-Beer
Law to the Study of Gaseous Systems in a Wide
Temperature Range, by S. A. Shebukarev, G. I.
Novikov, 7 pp.

RUSSIAN, par, Zhur Neorgan Khim, Vol I, No 11,
1956, pp 2433-2439.

AEC-Tr-4592
PL-480

Sci

Jun 63

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Thermal Dissociation of Platinum Halides. Communication
1. Platinum Bromides, by S. A. Shchukarev, T. A.
Tolmacheva, 10 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 1, 1956,
pp 8-16.

AEC-tr-4582
PL-480

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Aug 62

PST 561
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Thermal Dissociation of Platinum Halides. Communication
2. Platinum Chlorides, by S. A. Shchukarev, M. A.
Oranskaya, 8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 1, 1956,
pp 17-23.

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PST 571

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Infrared Absorption Spectra of Anhydrous Sulfuric
and Orthophosphoric Acids, by S. A. Shchukarev,

8 pp.

RUSSIAN, per. Leningrad, Universitet, Vestnik.
Seriya Fiziki i Khimii, No 1, 1964, pp 147-151.

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FTD-ME-64-358

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Apr 68

S. A. Shchukarev

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Studies on Halide Complexes of Zinc, Cadmium and
Mercury in Aqueous Solutions, by S. A. Shchukarev
and L. S. Lilich, 8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 2,
1956, pp 225-231.

AEC-tr-4583
PL-480

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Jan 62

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Saturation Pressure of Vanadium Tetrachloride Vapor,
by S. A. Shchukarev, M. A. Oranskaya, 6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 1, 1956,
pp 30-35.

AEC-tr-4582
PL-480

Sci

Aug 62

PST 571

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Spectrophotometric Study of Complex Bromides of Cobalt
in Alcoholic Solutions, by S. A. Shchukarev, O. A.
Lobaneva, 3 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol VI, No 4, 1961,
pp 804-808.

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Jun 62

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Optical and Tensimetric Studies of the
Chlorine Derivatives of Hexavalent Tungsten,
by S. A. Shchukarev, G. I. Novikov, 16 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2630-2641.

AEC-tr-4460
PL-480

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PST-382

206,605

III. Heats of Formation of the Hexavalent
Tungsten Chloro-Derivatives, by
S. A. Shchukarev, I. V. Vasil'kova, 6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2642-2646.

AEC-tr-4460
PL-480

Sci
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PST-382

206,606

Heats of Formation of Uranyl Chloride and
Uranium Monoxytrichloride, by S. A. Shchukarev,
I. V. Vasil'kova, 5 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2647-2650 .

AEC-tr-4460
PL-480

Sci
Aug 62
PST-382

206,607

The Heats of Formation of Uranyl Bromide,
Uranium Bromide and Monoxytribromide, by
S. A. Shchukarev, I. V. Vasil'kova, 4 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2651-2653.

AEC-tr-4460
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Sci
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PST-382

206,603

63-13401

Shchukarev, S. A., Kolbin, N. I., and Ryabov, A. N.
ANHYDROUS RUTHENIUM TRIBROMIDE. [1962] [7]p.
8 refs.

Order from OTS or SLA \$1.10

63-13401

Trans. of Leningrad U. Vestnik (USSR) 1961, v. 16,
no. 4, Ser[iya] Fiz[ika] i Khim[ia] no. 1, p. 100-104.

DESCRIPTORS: *Ruthenium compounds, *Bromides,
Anhydrides, Synthesis, Physical properties,
Dissociation.

Anhydrous ruthenium tribromide was prepared by
directly combined ruthenium and bromine in sealed
tubes at a bromine pressure of 15 to 20 atm and a tem-
perature of 450° to 500°C. The density and the lattice
plane spacing of RuBr₃ prepared in the dry way were
determined. A study was made of the thermal dis-
sociation of ruthenium tribromide, and the thermo-
(Chemistry--Inorganic, TT, v. 10, no. 4) (over)

- I. Shchukarev, S. A.
- II. Kolbin, N. I.
- III. Ryabov, A. N.
- IV. Translations, New York

Office of Technical Services

Shchularev, S. A. and Suborov, A. V.
A THERMODYNAMIC INVESTIGATION OF CERTAIN
CHLORINE DERIVATIVES OF MOLYBDENUM AND
TUNGSTEN. [1962] 15p. 26 refs.
Order from OTS or SLA \$1.60 63-13032

Trans. of Leningrad U. Vestnik (USSR) 1961 [v. 16]
no. 4 [Seriya Fizika i Khimii no. 1] p. 87-99.

DESCRIPTORS: *Molybdenum compounds, *Tungsten
compounds, *Chlorides, *Oxychlorides, Evaporation,
Dissociation, Disproportionation, Transition
temperature, Measurement, Chemical reactions,
*Thermodynamics.

The processes of evaporation, dissociation and
disproportionation in the system $\text{MoCl}_5 - \text{MoO}_3$ and
 $\text{WCl}_6 - \text{WO}_3$ by means of membrane and optico-
tensimetric methods were studied. Some thermodynamic
functions of these processes were obtained. (Author)
(Chemistry--Physical, TT, v. 10, no. 3)

63-13032

I. Shchularev, S. A.
II. Suborov, A. V.

A346065

Office of Technical Services

Enthalpies of Formation of Binary Compounds
of the Elements of the Main Subgroup of Group
V. The Phenomenon of Secondary Periodicity,
by S. M. Ariya, M. P. Morozova and S. A.
Shchukarev, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII,
No 5, 1957, pp 1131-1136.

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Sci - Chem

Sep 58

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Study of Solubility in the System CsNO_3 - HNO_3 -
 H_2O at 25° , by S. A. Shchukarev, M. A. ³Yakimov,
6² pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III, No 7,
1958, pp 1661-1664.

AEC-tr-4455
PL-480

Sci
May 62
PST 377

195,600

Thermal Dissociation of Gold Bromides, by
S. A. Shchukarev, ~~XXXX~~ M. A. Oranskaya, 7 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 7, 1958, pp 1478-1482.

AEC-tr-4455
PL-480

Sci
May 62
PST 377

195,325

Enthalpy of Solution of Zinc Perchlorate
Hexahydrate, by S. A. Shchukarev, S. N. Andreyev,
Z. G. Borisova, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,
1959, pp 2468, 2469.

Consultants Bureau

Sci

Aug 60

126,690

Enthalpy of Formation of Compounds of Titanium
With Elements of the Main Subgroup of Group V,
by S. A. Shchukarev, M. P. Mofozova, Li Miao-hsiu,
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,
1959, pp 2465-2467.

Consultants Bureau

Sci

Aug 60

126,689

Heats of Solution of Copper Perchlorate Hexahydrate in
Water and in Aqueous Solutions of Perchloric Acid,
by S. A. ~~Shchukarev~~, G. M. Orlova, Z. U. Borisova,
4pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 7, 1960,
pp 2097-2101

CB

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166, ~~279~~

Sci

Aug 61

Heats of Reaction of CaO and $\text{Ca}(\text{OH})_2$ With
Haloid and Perchloric Acids, by S. A. Shchukarev,
L. S. Milich, et al.

RUSSIAN, per, Vest Lenin Univ, Ser Fiz 1
Khim, Vol XIV, No 10, 1959, pp 66-71.

SLA 60-16828

Sci
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